

OPINION 1003

ORTHOCERAS BRUGUIÈRE, 1789 (CLASS CEPHALOPODA):
PLACED ON THE OFFICIAL LIST OF GENERIC NAMES

RULING.—(1) The generic name *Orthoceras* Bruguière, 1789 (gender: neuter) type-species, by subsequent designation by Miller, Dunbar and Condra (1933) *Orthoceratites regularis* Schlotheim, 1820, is hereby placed on the Official List of Generic Names in Zoology with the Name Number 1983.

(2) The specific name *regularis* Schlotheim, 1820, as published in the binomen *Orthoceratites regularis* (type-species of *Orthoceras* Bruguière, 1789) is hereby placed on the Official List of Specific Names in Zoology with the Name Number 2507.

(3) The family-group name ORTHOCERATIDAE M'Coy, 1844 (type-genus *Orthoceras* Bruguière, 1789) is hereby placed on the Official List of Family-Group Names in Zoology with the Name Number 472.

(4) Under the plenary powers the following names are hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy:

(i) *Orthoceros* Brünnich, 1771 (an unused senior objective synonym of *Orthoceras* Bruguière, 1789);

(ii) *Orthocera* Modeer, 1789 (an unused senior objective synonym of *Nodosaria* [Lamarck], [1816]);

(5) The following generic names are ruled invalid by reason of being junior homonyms of *Orthoceras* Bruguière, 1789;

(a) *Orthoceras* Batsch, 1791; (b) *Orthoceras* Spalovsky, 1795

(c) *Orthoceras* Schrank, 1796;

(d) *Orthoceras* Perry, 1811;

(e) *Orthoceras* Blainville, 1825;

(f) *Orthoceras* Deshayes, 1831;

(g) *Orthoceras* Phillips, 1836;

(h) *Orthoceras* Balashov, 1956.

(6) The generic name *Nodosaria* [Lamarck], [1816] (gender: feminine), type-species, by selection by Children, 1823, *Nautilus radícula* Linnaeus, 1758 (Class Rhizopoda, Order Foraminifera) is hereby placed on the Official List of Generic Names in Zoology with the Name Number 1984.

(7) The specific name *radícula* Linnaeus, 1758, as published in the binomen *Nautilus radícula* (type-species by selection by Children, 1823, of *Nodosaria* [Lamarck] [1816]) is hereby placed on the Official List of Specific Names in Zoology with the Name Number 2508.

(8) The following generic names are hereby placed on the Official Index of Rejected and Invalid Names in Zoology with the Name Numbers specified:

(i) those names suppressed under the plenary powers in (4) above:

(a) *Orthoceros* Brünnich, 1771 (Name No. 2013)

(b) *Orthocera* Modeer, 1789 (Name No. 2014)

(ii) the eight generic names declared in (5) above to be invalid junior homonyms of *Orthoceras* Bruguière, 1789:

- (c) *Orthoceras* Batsch, 1791 (Name No. 2015)
- (d) *Orthoceras* Spalovsky, 1795 (Name No. 2016)
- (e) *Orthoceras* Schrank, 1796 (Name No. 2017)
- (f) *Orthoceras* Perry, 1811 (Name No. 2018)
- (g) *Orthoceras* Blainville 1825 (Name No. 2019)
- (h) *Orthoceras* Deshayes, 1831 (Name No. 2020)
- (i) *Orthoceras* Phillips, 1836 (Name No. 2021)
- (j) *Orthoceras* Balashov, 1956 (Name No. 2022)
- (iii) the following junior homonyms of *Orthocera* Modeer, 1789:
 - (k) *Orthocera* Lamarck, 1799 (Name No. 2023)
 - (l) *Orthocera* J. Sowerby, 1812 (Name No. 2024)
 - (m) *Orthocera* Fleming, 1815 (Name No. 2025)
 - (n) *Orthocera* Blainville, 1828 (Name No. 2026)
- (iv) the following reputed generic names published in a non-binominal work by a non-binominal author;
 - (o) *Orthocerata* Soldani, 1780 (Name No. 2027)
 - (p) *Orthoceratia* Soldani, 1791¹ (Name No. 2028).
- (9) The family-group name ORTHOCEROTIDAE Teichert & Miller, 1936 (rendered invalid by the suppression under the plenary powers in (4) above of *Orthoceras* Brunnich, 1771) is hereby placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology with the Name No. 456.

HISTORY OF THE CASE (Z.N.(S.) 44)

This case has a long history, being originally brought before the Commission by the late Dr. A. K. Miller in 1930 in a slightly different form. Much correspondence has been entered upon and a report was compiled many years later by Mr. R. V. Melville which was published in *Bull. zool. Nomencl.* **17**, 1959: 9–24. This includes a detailed historical survey as well as the situation in 1959.

The case was submitted in its present form by Mr. R. V. Melville in March 1970. Mr. Melville's application was sent to the printer on 1 July 1970 and was published on 23 December 1970 in *Bull. zool. Nomencl.* **27** : 180–193. Public Notice of the possible use of the plenary powers in the present case was given in the same part of the *Bulletin* as well as to the other prescribed serial publications (Constitution Art. 12b; *Bull. zool. Nomencl.* **21** : 184), and to four specialist serials.

The proposals were supported by the following: C. Teichert, F. E. Eames, R. H. Cummings, A. H. Smout, M. K. Howarth, and V. N. Shimansky (see *Bull. zool. Nomencl.* **27** : 186–193). Objections were received from C. H. Holland and R. H. Flower (see *Bull. zool. Nomencl.* **27** : 188–193.)

DECISION OF THE COMMISSION

On 4 January 1973 the Members of the Commission were invited to vote under the Three-Month Rule on Voting Paper (72)17 on the proposals set out in

¹ The reference to *Orthoceratia* Soldani, 1780 given in the application in *Bull. zool. Nomencl.* **27**, 1970: 186, para. 5(d) is incorrect.

Bull. zool. Nomencl. 27 : 185–186. The Voting Paper was divided into two parts: in Part 1 Commissioners were invited to vote for either A, the use of the plenary powers to suppress *Orthoceras* Bruguière, 1789 or for B, the addition to the Official List of *Orthoceras* Bruguière, 1789 (*Bull.* 27 : 185); in Part 2 either for or against the proposals set out under “Part 2” on pages 185–186 of volume 27 of the *Bulletin*. At the close of the prescribed voting period on 4 April 1973 the state of the voting was as follows:

Part 1. A. Affirmative votes—two (2), received in the following order: Lemche, Eisenmann.

B. Affirmative votes—nineteen (19), received in the following order: Melville, Holthuis, Munroe, Mayr, Sabrosky, Vokes, Habe, Rohdendorf, Starobogatov, Binder, Tortonese, Bernardi, Simpson, Bayer, Brinck, Ride, Corliss, Alvarado, Nye.

Part 2. Affirmative votes—twenty-one (21), received in the following order: Melville, Holthuis, Munroe, Lemche, Mayr, Sabrosky, Eisenmann, Vokes, Habe, Rohdendorf, Starobogatov, Binder, Tortonese, Bernardi, Simpson, Bayer, Brinck, Ride, Corliss, Alvarado, Nye.

Negative votes—none (0).

Commissioner Heppell returned a late vote for Part 1 proposal A, and for Part 2. Commissioner Kraus returned a late vote for Part 1 proposal B and for Part 2.

Voting Papers not returned—three (3): Erben, Willink, Dupuis.

The following comments were made by Commissioners in returning their votes:

Dr. H. Lemche (7.i.73): “This is another important case where a name of long standing but without the necessary clear content, is proposed for preservation with a newly invented (in this case not even quite strict) content.

I find that in these cases two different paths of thinking are mixed in an unacceptable manner. Firstly there is the attempt to preserve well known concepts under their well known names, and this idea has always had my fullest support. Secondly, there is the sentimental feeling that well known names should not be permitted to disappear even though they may not have any legal definition. But it is dangerous to preserve such hollow names, solely by putting some strict concept into them and then affording the rest of mankind to accept the new and restricted interior. Most people will still recognize them from the outside, with no regard to the restricted interior, and in general communication, it will for a very long time remain impossible to know directly from the citation of the name, whether it is used as seen from the exterior in the old and confused sense, or as seen with a clear knowledge of what had at a certain date become established inside. In the present case, if the name *Orthoceras* becomes accepted, the general use of that name as a waste basket is to stop immediately (in spite of Mr. Melville’s statement—I am sorry). If, however, the name is suppressed, any use of it is *ipso facto* a statement that no detailed taxonomic information is thereby presented. Dr. Flower’s suggestion will make the name freely available as a waste basket also in the future. Therefore, I prefer his solution”.

Prof. F. M. Bayer (22.iii.73): "I vote in favour of preserving *Orthoceras* and giving it a stable base, in spite of the objections of Dr. Flower, which have substantial scientific merit. However, the long and wide usage of *Orthoceras* in the literature makes its retention highly desirable. In reaching this decision, I have had the valuable assistance of Dr. G. Voss, a specialist in Recent cephalopods, who teaches graduate level students in the systematics, evolution, and biology of the Cephalopoda".

ORIGINAL REFERENCES

The following are the original references for names placed on Official Lists and Indexes by the Ruling given in the present Opinion:

- Nodosaria* Lamarck, 1816, *Ency. méth. (Vers)*: pl. 465
Orthocera Modeer, 1789, (*Illust. quaedam in R.D. Ambr. Soldani opus egreg. Saggio Oritto-graffico dictum*) first published as a part of *Testaceogr. ac Zoophytogr. parvae et microsc. tomus primus*: 41-43
Orthocera Lamarck, 1799, *Mém. Soc. Hist. nat. Paris* 1 : 80
Orthocera J. Sowerby, 1812, *Min. Conch.* 1 : 127
Orthocera Fleming, 1815, *Ann. Phil.* 5 : 201-206
Orthocera Blainville, 1828, *Dict. Sci. nat.* 36 : 485
Orthoceras Bruguière, 1789, *Ency. méth., Hist. nat. Vers*, pt. i, page xvi
Orthoceras Batsch, 1791, *Sechs Kupfertafeln mit Conchylien des Seesandes*: (no page nos.)
Orthoceras Spalovsky, 1795, *Prodromus in Syst. nat. Hist. Test.*: 10
Orthoceras Schrank, 1796, *Samml. Nat. Phys. Aufsatz*: 131
Orthoceras Perry, 1811, *Conch. nat. Hist. Shells*: pl. LII.
Orthoceras Blainville, 1825, *Man. Malac.*: 379
Orthoceras Deshayes, 1813, *Descr. Coquilles caract. Terrains* 215:
Orthoceras Phillips, 1836, *Ill. Geol. Yorks*: 237
Orthoceras Balashov, 1956, emend. pro *Orthoceros* Brunnich, 1771 *Ezheg. vses. paleont. Obshch* 15 : 233
Orthocerata Soldani, 1780, *Saggio Oritto-graffico, ovvero osservazioni sopra le terre nautilitiche ed ammonitiche della Toscana*: 106
Orthoceratia Soldani, 1791, *Testaceographiae ac Zoophytographiae parvae et microscopicae tomus primus*: pt. 2, 91
ORTHOCERATIDAE M'Coy, 1844, A synopsis of the characters of the Carboniferous Limestone fossils of Ireland (London): 6
Orthoceros Brunnich, [1771] *Zoologiae Fundamenta*: 232, 246
ORTHOCEROTIDAE Teichert & Miller, 1936, in Kindle & Miller, 1939, *Geol. Soc. America Special Paper* 23 : 1
radicula, *Nautilus*, Linnaeus, 1758, *Syst. Nat., ed.* 10 : 71
regularis, *Orthoceratites*, Schlotheim, 1820, *Die Petref.* : 54

CERTIFICATE

I certify that the votes cast on Voting Paper (72)17 were cast as set out above, that the proposals contained in that Voting Paper have been duly adopted

under the plenary powers, and that the decision so taken, being the decision of the International Commission, is truly recorded in the present Opinion No. 1003.

R. V. MELVILLE

Secretary

International Commission on Zoological Nomenclature

London

3 September 1973